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Building & Highway Material Testing Laboratory

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Job No.: CTCE/BBMP/KRIDL/W.No.12/CSR-28ab/CEMENT/2020-21 Date: 04.02.2021

TEST REPORT ON CEMENT

*** Customer**	:	**Asst. Executive Engineer,** Shettyhalli Sub Division, BBMP, Bangalore.
*** Agency**	:	**Technical Manager (West),** KRIDL, Bangalore.
*** Name of Work**	:	Construction of CC roads and other works at Abbigere colony balance roads in Ward No.12, Shettyhalli Sub Division, BBMP, Bangalore.
*** Reference**	:	BBMP/EE/DD/WO/594/2019-20 Date: 18.03.2020
*** Sample ID**	:	Cement
Sample Received on	:	03.02.2021
Period of Testing	:	03.02.2021 to 04.02.2021
Report Issue Date	:	04.02.2021

The results of the tests conducted on the cement sample are as follows:

Sl. No	Descriptions	Test Method as per IS	Test Result	Requirements as per IS: 269:2015
1	Standard Consistency	IS-4031 (Part -4) : 1988 (RA-2019)	28.50 %	-
2	a) Initial Setting Time	IS-4031 (Part -5) : 1988 (RA-2019)	180 Minutes	Not Less than 30 Minutes
	b) Final Setting Time	IS-4031 (Part -5) : 1988 (RA-2019)	390 Minutes	Not More than 600 Minutes
3	Soundness by Le Chartlier Method	IS-4031 (Part-3) : 1988 (RA-2019)	1 mm	Not more than 10mm

*Information is furnished by the Customer/Representative.

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Pooja K.L.

Authorised Signatory

ಸಹಾಯಕ ಕಾರ್ಯಪಾಲಕ ಅಭಿಯಂತರರ
ಶೆಟ್ಟಿಹಳ್ಳಿ ಉಪವಿಭಾಗ, ದಾಸರಹಳ್ಳಿ ವಲಯ
ಬೃಹತ್ ಬೆಂಗಳೂರು ಮಹಾನಗರ ಪಾಲಿಕೆ
ಬಿ.ಇ.ಎಲ್. ರಸ್ತೆ, ರವೀಂದ್ರನಗರ, ಬೆಂಗಳೂರು.

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Job No.: CTCE/BBMP/KRIDL/W.No.12/CSR-28ab/SAND-Gradation/2020-21 04.02.2021

TEST REPORT ON SIEVE ANALYSIS OF FINE AGGREGATES

*** Customer**	:	**Asst. Executive Engineer,** Shettyhalli Sub Division, BBMP, Bangalore.
*** Agency**	:	**Technical Manager (West),** KRIDL, Bangalore.
*** Name of Work**	:	Construction of CC roads and other works at Abbigere colony balance roads in Ward No.12, Shettyhalli Sub Division, BBMP, Bangalore.
*** Reference**	:	BBMP/EE/DD/WO/594/2019-20 Date: 18.03.2020
*** Sample ID**	:	Fine Aggregates (Manufactured Sand)
Test Method As Per	:	IS - 2386 (Part 1) : 1963 (RA-2016)
Sample Received On	:	03.02.2021
Date of Testing	:	04.02.2021
Report Issue Date	:	04.02.2021

Total Wt. of Aggregates in gms = **1000**

IS Sieve Size in mm	Cumulative Weight Passing in %	Specific Limits as per IS 383-2016			
		Zone-I	Zone-II	Zone-III	Zone-IV
10	100	100	100	100	100
4.75	96.00	90-100	90-100	90-100	95-100
2.36	78.00	60-95	75-100	85-100	95-100
1.18	64.80	30-70	55-90	75-100	90-100
600 Micron	39.60	15-34	35-59	60-79	80-100
300 Micron	18.00	5-20	8-30	12-40	15-50
150 Micron	7.80	0-10	0-10	0-10	0-15

* Information is furnished by the Customer/Representative

Remarks : This sample is under Zone-II specific limits.

Note 1 :

For crushed stone sands, the permissible limit on 150-micron IS Sieve is increased to 20 percent. This does not affect the 5 percent allowance permitted in 4.3 of IS 383 applying to other sieve sizes.

Note 2 :

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Job No.: CTCE/BBMP/KRIDL/W.No.12/CSR-28ab/AGG/GR/2020-21 04.02.2021

TEST REPORT ON SIEVE ANALYSIS OF COARSE AGGREGATES

*** Customer**	:	**Asst. Executive Engineer,** Shettyhalli Sub Division, BBMP, Bangalore.
*** Agency**	:	**Technical Manager (West),** KRIDL, Bangalore.
*** Name of Work**	:	Construction of CC roads and other works at Abbigere colony balance roads in Ward No.12, Shettyhalli Sub Division, BBMP, Bangalore.
*** Reference**	:	BBMP/EE/DD/WO/594/2019-20 Date: 18.03.2020
*** Sample ID**	:	Coarse Aggregates (40mm)
Test Method As Per	:	IS - 2386 (Part 1) : 1963 (RA-2016)
Sample Received on	:	03.02.2021
Date of Testing	:	04.02.2021
Report Issue Date	:	04.02.2021

Total Wt. of Aggregates in gms= **5000**

IS Sieve Size in mm	Cumulative Weight Passing in %	Specific Limits as per IS - 383 : 2016	
		Graded	Single Sized
80	100	100	-
63	100	-	100
40	98.30	95-100	85-100
20	41.18	30-70	0-20
10	14.78	10-35	0-5
4.75	2.32	0-5	-

* Information is furnished by the Customer/Representative

Remarks : This sample is under graded specific limits.

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Job No.: CTCE/BBMP/KRIDL/W.No.12/Steel/2020-21

04.02.2021

TEST REPORT ON REINFORCEMENT STEEL

*** Customer**	:	**Asst. Executive Engineer,** Shettyhalli Sub Division, BBMP, Bangalore.
*** Agency**	:	**Technical Manager (West),** KRIDL, Bangalore.
*** Name of work**	:	Construction of CC roads and other works at Abbigere colony balance roads in Ward No.12, Shettyhalli Sub Division, BBMP, Bangalore.
*** Reference**	:	BBMP/EE/DD/WO/594/2019-20 Date: 18.03.2020
*** Samples ID**	:	8mm Bar
Test Method as per	:	IS - 1786 : 2008 (RA-2018)
Date of Testing	:	04.02.2021
Report Issue Date	:	04.02.2021

Sl No	Nominal size (dia) (mm)	Mass per metre (Kg/mtr)	TENSILE STRENGTH			Bend Test	Rebend Test
			0.20% proof stress/Yield stress N/mm2	Tensile strength (Ultimate stress) N/mm2	Elongation percent gauge length		
1	8	0.39	511	552	13.1	O.K	O.K

*Information is furnished by the Customer/Representative.

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Job No.: CTCE/BBMP/KRIDL/W.No.12/Steel/2020-21 04.02.2021

TEST REPORT ON REINFORCEMENT STEEL

*** Customer**	:	**Asst. Executive Engineer,** Shettyhalli Sub Division, BBMP, Bangalore.
*** Agency**	:	**Technical Manager (West),** KRIDL, Bangalore.
*** Name of work**	:	Construction of CC roads and other works at Abbigere colony balance roads in Ward No.12, Shettyhalli Sub Division, BBMP, Bangalore.
*** Reference**	:	BBMP/EE/DD/WO/594/2019-20 Date: 18.03.2020
*** Samples ID**	:	10 mm Bar
Test Method as per	:	IS - 1786 : 2008 (RA-2018)
Date of Testing	:	04.02.2021
Report Issue Date	:	04.02.2021

Sl No	Nominal size (dia) (mm)	Mass per metre (Kg/mtr)	TENSILE STRENGTH			Bend Test	Rebend Test
			0.20% proof stress/Yield stress N/mm2	Tensile strength (Ultimate stress) N/mm2	Elongation percent gauge length		
1	10	0.62	514	555	13.2	O.K	O.K

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Job No.: CTCE/BBMP/KRIDL/W.No.12/CSR-28ab/Cube/2020-21 06.03.2021

TEST REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CUBES

* Customer	:	**Asst. Executive Engineer,** Shettyhalli Sub Division, BBMP, Bangalore.
* Agency	:	**Technical Manager (West),** KRIDL, Bangalore.
* Name of the work	:	Construction of CC roads and other works at Abbigere colony balance roads in Ward No.12, Shettyhalli Sub Division, BBMP, Bangalore.
* Reference	:	BBMP/EE/DD/WO/594/2019-20 Date: 18.03.2020
* Sample ID	:	RCC Drain Raft Concrete
Technical Reference	:	IS: 516-1959 (RA-2018)
Size of cubes	:	150mmx150mmx150mm
Cross Sectional Area	:	22500 mm^2
* Grade of Concrete	:	M_{25}
Compressive Strength as on	:	28^{th} day
Sample Received on	:	06.03.2021
Report Issue Date	:	06.03.2021

Sl.No.	* Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	06.02.2021	06.03.2021	8.102	608.5	27.04
2	06.02.2021	06.03.2021	8.213	612.9	27.24
3	06.02.2021	06.03.2021	8.390	634.8	28.21

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Job No.: CTCE/BBMP/KRIDL/W.No.12/CSR-28ab/Cube/2020-21

15.02.2021

TEST REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CUBES

* Customer	:	**Asst. Executive Engineer,** Shettyhalli Sub Division, BBMP, Bangalore.
* Agency	:	**Technical Manager (West),** KRIDL, Bangalore.
* Name of the work	:	Construction of CC roads and other works at Abbigere colony balance roads in Ward No.12, Shettyhalli Sub Division, BBMP, Bangalore.
* Reference	:	BBMP/EE/DD/WO/594/2019-20 Date: 18.03.2020
* Sample ID	:	RCC Drain Side Wall Concrete
Technical Reference	:	IS: 516-1959 (RA-2018)
Size of cubes	:	150mmx150mmx150mm
Cross Sectional Area	:	22500 mm^2
* Grade of Concrete	:	M_{25}
Compressive Strength as on	:	7^{th} day
Sample Received on	:	15.02.2021
Report Issue Date	:	15.02.2021

Sl.No.	* Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	08.02.2021	15.02.2021	8.196	419.6	18.65
2	08.02.2021	15.02.2021	8.326	432.9	19.24
3	08.02.2021	15.02.2021	8.290	419.6	18.65

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Job No.: CTCE/BBMP/KRIDL/W.No.12/CSR-28ab/Cube/2020-21 17.02.2021

TEST REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CUBES

*** Customer**	:	**Asst. Executive Engineer,** Shettyhalli Sub Division, BBMP, Bangalore.
*** Agency**	:	**Technical Manager (West),** KRIDL, Bangalore.
*** Name of the work**	:	Construction of CC roads and other works at Abbigere colony balance roads in Ward No.12, Shettyhalli Sub Division, BBMP, Bangalore.
*** Reference**	:	BBMP/EE/DD/WO/594/2019-20 Date: 18.03.2020
*** Sample ID**	:	RCC Drain Side Wall Concrete
Technical Reference	:	IS: 516-1959 (RA-2018)
Size of cubes	:	150mmx150mmx150mm
Cross Sectional Area	:	22500 mm^2
*** Grade of Concrete**	:	M_{25}
Compressive Strength as on	:	7^{th} day
Sample Received on	:	17.02.2021
Report Issue Date	:	17.02.2021

Sl.No.	* Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	10.02.2021	17.02.2021	8.129	445.8	19.81
2	10.02.2021	17.02.2021	8.219	413.6	18.38
3	10.02.2021	17.02.2021	8.385	421.8	18.75

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